

**Amendment to Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Previously Presented) A method of delivery DNA to a spermatogonium, comprising infusing *in situ* DNA into the testicle of a non-human animal and administering a condition or substance to said testicle to increase uptake of said DNA by said spermatogonium, wherein said animal is a chicken.

2-4. (Canceled)

5. (Original) The method of claim 1, wherein said substance is a lipid or phospholipid.

6. (Original) The method of claim 1, wherein said DNA is infused in a volume of at least 0.1 ml per testicle.

7-10. (Canceled)

11. (Previously Presented) The method of claim 1, wherein said animal is prepubertal.

12-13. (Canceled)

14. (Original) The method of claim 1, wherein DNA is administered to said testicle before the time at which sperm production is detected.

15-17. (Canceled)

18. (Previously Presented) A method of making a transgenic chicken comprising infusing *in situ* DNA into a testicle of a prepubertal chicken, allowing said prepubertal chicken to reach sexual maturity to yield a sexually mature chicken, harvesting sperm cells from said sexually mature

chicken, contacting an ovum with said sperm cells under conditions suitable for fertilization to produce said transgenic chicken.

19-20. (Canceled)

21. (Previously Presented) A method of delivering a DNA to a spermatogonium, comprising infusing in situ said DNA into a testicle of a prepubertal chicken and administering a lipid or phospholipid to said testicle to facilitate uptake of said DNA by said spermatogonium, wherein said DNA is infused into said testicle before production of sperm by meiosis in said testicle.

22-23. (Canceled)

24. (Previously Presented) A method of delivering a DNA to a spermatogonium, comprising infusing in situ said naked DNA into a testicle of a prepubertal chicken and administering DEAE-dextran to said testicle to facilitate uptake of said DNA by said spermatogonium, wherein said DNA is infused into said testicle before production of sperm by meiosis in said testicle.

25-26. (Canceled)

27. (New) A method of producing transgenic sperm, comprising infusing a transgenic DNA into a spermatogonium of a prepubertal chicken testicle in vivo and applying an electrical current to said testicle to increase uptake of said DNA by said spermatogonium, wherein semen collected from said testicle comprises said transgenic DNA.